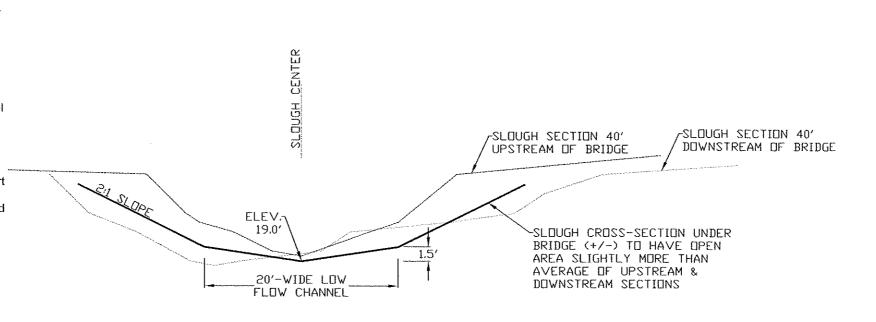
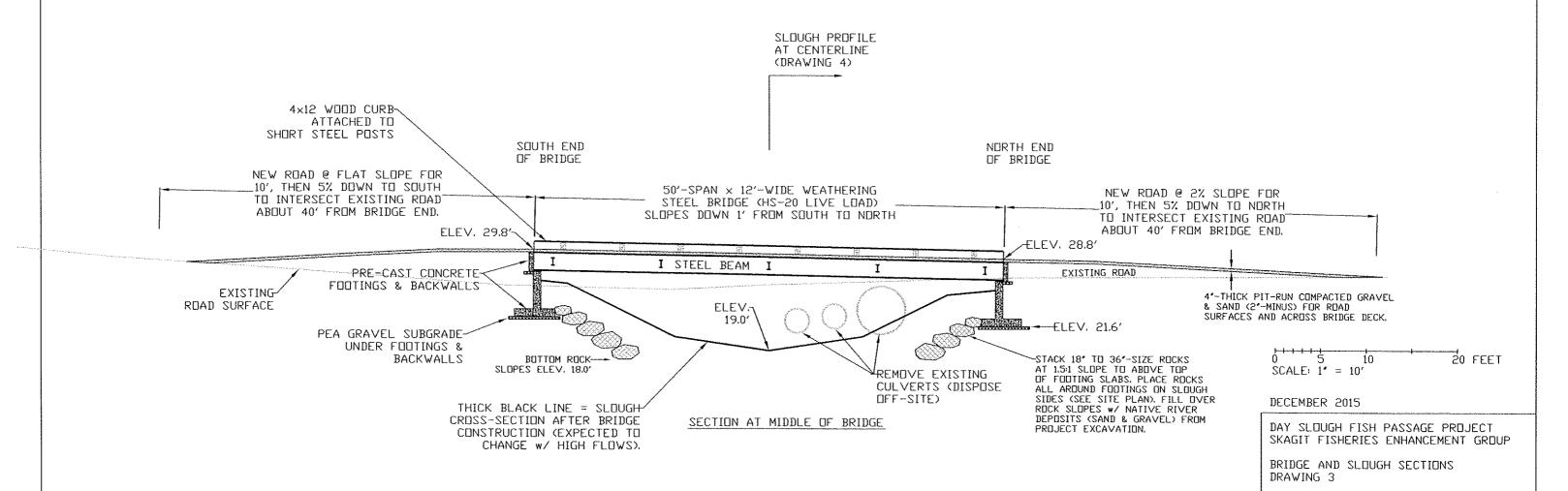


Notes for Bridge & Slough Design:

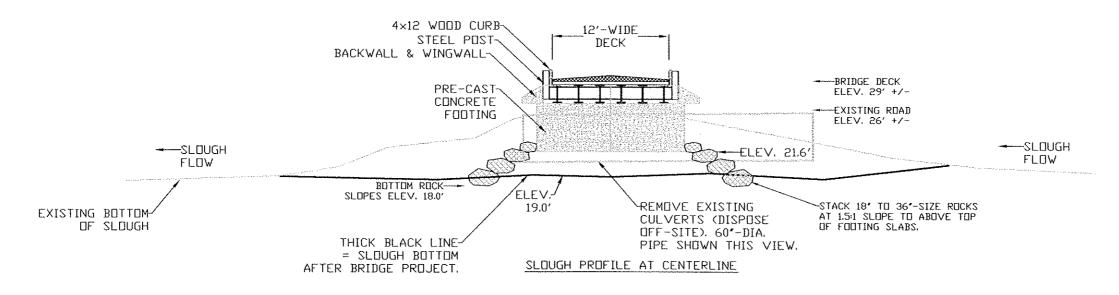
- Excavation of the slough at the existing crossing will result in a slough cross-section approximately equal to upstream and downstream sections. High flows during Skagit River flooding are expected to modify the slough cross-section under the bridge, and the rock slope(s) and footing wall(s) may be exposed. Moderate changes to the slough cross-section near or under the bridge, by natural sediment erosion and/or deposition, will not adversely affect the proposed bridge.
- High river flows and high slough flows will completely submerge the bridge. Steel beams welded to anchor plates, which will be bolted to steel anchors imbedded in the concrete footings, will securely hold the bridge in-place even when completely submerged.
- 3. Bridge beams will be 24"-deep (maximum), which will probably require 6 beams for the 50'-span (vs. 4 beams if 36" deep). The bridge will have 1'-high wood curbs (4x12 lumber) instead of higher steel guardrails. Short beams and the short curbs will present a minimum bridge section to high flows and wood debris coming down the slough, to minimize hydraulic and debris loads on the bridge.
- Bridge deck will be a maximum = 4' higher than existing road at the south end of bridge. The entire bridge superstructure will be equal elevation or higher than the existing road surface crossing of Day Slough.
- Concrete chunks within the existing road fill across slough will be entirely removed from slough. These chunks will be used for construction of new road sections on both sides of bridge, for erosion-resistant approaches to the new bridge deck.



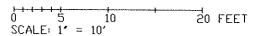


SLOUGH SECTIONS (SEE DWG. 2)

NOTE: NORTH BRIDGE END & FOOTING SHOWN THIS VIEW. SOUTH END WILL BE 1' HIGHER ELEVATION.







DECEMBER 2015

DAY SLOUGH FISH PASSAGE PROJECT SKAGIT FISHERIES ENHANCEMENT GROUP

SLOUGH PROFILE AT CENTERLINE DRAWING 4